CW#85&HW#85: Solving Right Triangles Pt I

Geometry  
Due: Tuesday, Feb 23rd

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

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| Objective | * You will be able to find missing angles using inverse trig and given sides of a right triangle. |
| Essential Question | * In a right triangle, how can you find all the sides and all the angles of the triangle? |
| Criteria for Success | Did you…   * Correctly identify the sides (opposite, adjacent, hypotenuse)? * Use the correct trig ratio? * Analyze your answer: Does it make sense? Did you answer the question completely? |

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| USING INVERSE TANGENTS Use a calculator to approximate the measure of *∠A* to the nearest tenth of a degree. | |
| ../../../../../Desktop/Screen%20Shot%202016-02-20%20at%203.40.17%20PM 1. | ../../../../../Desktop/Screen%20Shot%202016-02-20%20at%203.40.22%20PM2. |
| USING INVERSE SIN AND COS Use a calculator to approximate the measure of *∠A* to the nearest tenth of a degree. | |
| ../../../../../Desktop/Screen%20Shot%202016-02-20%20at%203.43.31%20PM3. | ../../../Desktop/Screen%20Shot%202016-02-20%20at%203.43.27%20PM.png4. |
| 5.Decide which of the following equations could be ued on triangle JLK below and explain why you chose your answer.  A.  ../../../../../Desktop/Screen%20Shot%202016-02-20%20at%203.43.41%20PMB.  C.  D. A. | |
| ERROR ANALYSIS *Describe* and correct the student’s error in using an inverse trig ratio. | |
| 6. ../../../../../Desktop/Screen%20Shot%202016-02-20%20at%203.44.01%20PM | 7. ../../../../../Desktop/Screen%20Shot%202016-02-20%20at%203.44.05%20PM |

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| CALCULATOR Let ∠*A* be an acute angle in the right triangle. Approximate the measure of ∠*A* to the nearest tenth of a degree. | | | |
| 8. sin *A* = 0.5 | 9. sin *A* = 0.75 | 10. cos *A* = 0.33 | 11. cos *A* = 0.64 |
| 12. tan *A* = 1.0 | 13. tan *A* = 0.28 | 14. sin *A* = 0.19 | 15. cos *A* = 0.81 |
| 16.../../../../../Desktop/Screen%20Shot%202016-02-20%20at%203.44.39%20PM | | | |
| ../../../../../Desktop/Screen%20Shot%202016-02-20%20at%203.45.06%20PM17. | | | |
| REVIEW – COMPLETED AT HOME ONLY!! If you’ve finished everything before this point in class, raise your hand. Review is a chance for YOU to practice skills that we have already learned through out the year. Choose 4 of the 6 problems below and complete them as your review. | | | |
| Find the area of the triangle.  ../../../../../Desktop/Screen%20Shot%202016-02-21%20at%2011.05.22%20AM | | ../../../../../Desktop/Screen%20Shot%202016-02-21%20at%2011.05.36%20AMFind the value of x. | |
| Find the total area of the heart. | | Find the value of x.  ../../../../../Desktop/Screen%20Shot%202016-02-21%20at%2011.08.53%20AM | |
| Solve for y given the two points and the slope through the points. ../../../../../Desktop/Screen%20Shot%202016-02-21%20at%2011.09.43%20AM | | Simplify. Your answer should contain only positive exponents.  ../../../../../Desktop/Screen%20Shot%202016-02-21%20at%2011.09.39%20AM | |